

Marked-Up Version to Show Changes Made

In the Drawings

In the amendment filed on July 30, 2001, proposed corrections to Figures 11A and 11B were submitted showing the tunnel current flow. It is respectfully requested that the Examiner approve these corrections. Upon the Examiner's approval, Applicants will submit a new set of formal drawings.

In the Claims

Claims 1, 5, and 22 were amended as follows.

1. (Twice Amended) A surface acoustic wave device comprising a piezoelectric substrate, a first interdigital transducer and a second interdigital transducer formed on a surface of the piezoelectric substrate so that the first and second interdigital transducers are opposed to each other,

wherein the piezoelectric substrate includes a doping region that is doped with a substance in at least one form selected from the group consisting of atoms, molecules and clusters in a surface between the first and second interdigital transducers.

5. (Amended) The surface acoustic wave device according to claim 1, wherein the substance is [a substance obtained by ionizing] at least one selected from the group consisting of a reducing gas, silane, nitrogen, oxygen, argon, silicon, arsenic, boron, phosphorus, tin, indium, chromium, tantalum, molybdenum, germanium, and nickel.

22. (Amended) A surface acoustic wave device comprising a piezoelectric substrate, a first interdigital transducer and a second interdigital transducer formed on the piezoelectric substrate so that the first and second interdigital transducers are opposed to each other,

wherein the piezoelectric substrate includes a plurality of conductive regions spaced apart from each other on a surface thereof between the first and second interdigital transducers, and a tunnel current flows between the first and second interdigital transducers via the conductive regions.